

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A signal output method comprising:
 - providing a write permission signal including a repetition of a write enable interval and a pause interval;
 - providing a write data signal to be output during the write enable interval;
 - outputting a write signal including the write permission signal and the write data signal; and
 - writing information to an optical information recording medium by using the write signal,
- wherein T_{fmax} denotes an output interval of a first write data signal among write data signals corresponding to a write permission signal immediately subsequent to a pause interval of the write signal in a case in which the pause interval of the write signal is a maximum,
- T_{fmin} denotes an output interval of a first write data signal among the write data signals corresponding to a write permission signal immediately subsequent to the pause interval of the write signal in a case in which the pause interval of the write signal is a minimum,
- T denotes a reference period, and
- wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula (1):

Formula (1): $T_{fmax} - T_{fmin} \geq 0.01T$.

2. (original): A signal output method according to claim 1, wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula:

$$0.4T \geq T_{fmax} - T_{fmin} \geq 0.06T.$$

3. (original): A signal output method according to claim 1, wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula:

$$T_{fmax} - T_{fmin} = 0.25T.$$

4. (original): A signal output method according to claim 1, wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula:

$$T_{fmax} - T_{fmin} = 0.15T.$$

5. (original): A signal output method according to claim 1, wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formulae:

$$1.8T \geq T_{fmax} \geq 0.5T$$

$$1.8T \geq T_{fmin} \geq 0.5T.$$

6. (original): A signal output method according to claim 1, wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formulae:

$$1.5T \geq T_{fmax} \geq 0.7T$$

$$1.5T \geq T_{fmin} \geq 0.7T.$$

7. (original): A signal output method according to claim 1, wherein when T_{mp} denotes an output interval of each write data signal except the first and the last write data signals

among the write data signals, the write signal is outputted so that T_{mp} and T satisfy the following formula:

$$0.84T \geq T_{mp} \geq 0.4T.$$

8. (original): A signal output method according to claim 1, wherein when T_{mp} denotes an output interval of each write data signal except the first and the last write data signals among the write data signals, the write signal is outputted so that T_{mp} and T satisfy the following formula:

$$0.78T \geq T_{mp} \geq 0.6T.$$

9. (original): A signal output method comprising:
providing a write permission signal including a repetition of a write enable interval and a pause interval;
providing a write data signal to be output during the write enable interval;
outputting a write signal including the write permission signal and the write data signal; and
writing information to an optical information recording medium by using the write signal,
wherein T_{lmax} denotes an output interval of a last write data signal among write data signals corresponding to a write permission signal immediately preceding a pause interval of the write signal in a case in which the pause interval of the write signal is a maximum,

Tlmin denotes an output interval of the last write data signal among the write data signals corresponding to a write permission signal immediately preceding the pause interval of the write signal in a case in which the pause interval of the write signal is a minimum,

T denotes a reference period, and

wherein the write signal is outputted so that Tlmax, Tlmin and T satisfy the following formula (2):

Formula (2): $Tlmin - Tlmax \geq 0.01T$.

10. (original): A signal output method according to claim 9, wherein the write signal is outputted so that Tlmax, Tlmin and T satisfy the following formula:

$0.4T \geq Tlmin - Tlmax \geq 0.06T$.

11. (original): A signal output method according to claim 9, wherein the write signal is outputted so that Tlmax, Tlmin and T satisfy the following formula:

$Tlmin - Tlmax = 0.25T$.

12. (original): A signal output method according to claim 9, wherein the write signal is outputted so that Tlmax, Tlmin and T satisfy the following formula:

$Tlmin - Tlmax = 0.15T$.

13. (original): A signal output method according to claim 9, wherein the write signal is outputted so that Tlmax, Tlmin and T satisfy the following formulae:

$0.9T \geq Tlmax \geq 0.2T$

$0.9T \geq Tlmin \geq 0.2T$.

14. (original): A signal output method according to claim 9, wherein the write signal is outputted so that T_{lmax} , T_{lmin} and T satisfy the following formulae:

$$0.7T \geq T_{lmax} \geq 0.3T$$

$$0.7T \geq T_{lmin} \geq 0.3T.$$

15. (original): A signal output method according to claim 9, wherein when T_{mp} denotes an output interval of each write data signal except first and last write data signals among write data signals, the write signal is outputted so that T_{mp} and T satisfy the following formula:

$$0.84T \geq T_{mp} \geq 0.4T.$$

16. (original): A signal output method according to claim 9, wherein when T_{mp} denotes an output interval of each write data signal except first and last write data signals among write data signals, the write signal is outputted so that T_{mp} and T satisfy the following formula:

$$0.78T \geq T_{mp} \geq 0.6T.$$

17. (original): A signal output method according to claim 9, wherein

T_{fmax} denotes an output interval of a first write data signal among write data signals corresponding to a write permission signal immediately subsequent to a pause interval of the write signal in the case in which the pause interval of the write signal is the maximum,

T_{fmin} denotes an output interval of a first write data signal among the write data signals corresponding to a write permission signal immediately subsequent to a pause interval of the write signal in the case in which the pause interval of the write signal is the minimum, and

wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula (1):

Formula (1): $T_{fmax} - T_{fmin} \geq 0.01T$.

18. (original): An optical information recording medium having information recorded thereon by using a signal output method, the signal output method comprising:
- providing a write permission signal including a repetition of a write enable interval and a pause interval;
 - providing a write data signal to be output during the write enable interval;
 - outputting a write signal including the write permission signal and the write data signal; and
 - writing information to an optical information recording medium by using the write signal,
- wherein T_{fmax} denotes an output interval of a first write data signal among write data signals corresponding to a write permission signal immediately subsequent to a pause interval of the write signal in a case in which the pause interval of the write signal is a maximum,
- T_{fmin} denotes an output interval of a first write data signal among the write data signals corresponding to a write permission signal immediately subsequent to the pause interval of the write signal in a case in which the pause interval of the write signal is a minimum,
- T denotes a reference period, and
- wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula (1):

Formula (1): $T_{fmax} - T_{fmin} \geq 0.01T$.

19. (original): An optical information recording medium according to claim 18, wherein information can be recorded thereon by using a laser beam having a wavelength in the range of 350 nm to 500 nm.

20. (original): An optical information recording medium according to claim 18, wherein the optical information recording medium is a write once type and a dye type.

21. (original): An optical information recording medium having information recorded thereon by using a signal output method, the signal output method comprising:

providing a write permission signal including a repetition of a write enable interval and a pause interval;

providing a write data signal to be output during the write enable interval;

outputting a write signal including the write permission signal and the write data signal; and

writing information to an optical information recording medium by using the write signal,

wherein T_{max} denotes an output interval of a last write data signal among write data signals corresponding to a write permission signal immediately preceding a pause interval of the write signal in a case in which the pause interval of the write signal is a maximum,

T_{min} denotes an output interval of the last write data signal among the write data signals corresponding to a write permission signal immediately preceding the pause interval of the write signal in a case in which the pause interval of the write signal is a minimum,

T denotes a reference period, and

wherein the write signal is outputted so that T_{lmax} , T_{lmin} and T satisfy the following formula (2):

Formula (2): $T_{lmin} - T_{lmax} \geq 0.01T$.

22. (original): An optical information recording medium according to claim 21, wherein information can be recorded thereon by using a laser beam having a wavelength in the range of 350 nm to 500 nm.

23. (original): An optical information recording medium according to claim 21, wherein the optical information recording medium is a write once type and a dye type.

24. (new): A signal output method according to claim 1, further comprising:
setting one of a plurality of recording strategies according to a recording speed magnification; and
modulating at least one of T_{fmax} and T_{fmin} according to the set recording strategy, wherein the pause interval is set by the set recording strategy.

25. (new): A signal output method according to claim 9, further comprising:
setting one of a plurality of recording strategies according to a recording speed magnification; and
modulating at least one of T_{lmax} and T_{lmin} according to the set recording strategy, wherein the pause interval is set by the set recording strategy.

26. (new): A signal output method according to claim 17, further comprising:
setting one of a plurality of recording strategies according to a recording speed magnification; and

modulating at least one of Tf_{\max} and Tf_{\min} according to the set recording strategy,
wherein the pause interval is set by the set recording strategy.

27. (new): An optical information recording medium according to claim 18, wherein
the signal output method further comprises:

setting one of a plurality of recording strategies according to a recording speed
magnification; and

modulating at least one of Tf_{\max} and Tf_{\min} according to the set recording strategy,
wherein the pause interval is set by the set recording strategy.

28. (new): An optical information recording medium according to claim 21, wherein
the signal output method further comprises:

setting one of a plurality of recording strategies according to a recording speed
magnification; and

modulating at least one of Tl_{\max} and Tl_{\min} according to the set recording strategy,
wherein the pause interval is set by the set recording strategy.